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sounding balloons launched from St. Louis. The detailed discussion will appear in the *Annals* of the Harvard College Observatory. "Our Present Knowledge regarding the Heat of Evaporation of Water," by Professor A. W. Smith. "Studies on the Vortices in the Atmosphere of the Earth," by Professor F. H. Bigelow. This paper deals with the application of the theory of vortex motion to the funnel-shaped waterspout at Cottage City, Mass., August 19, 1896.

The November, 1907, number (dated February 10, 1908) contains the following contributions: "Phenomena connected with the San Francisco Earthquake," by Dr. C. M. Richter and Professor A. G. McAdie. Reference is made to the fact that the writers "have no record of any detonation coming from the ground"; that they "have no proof whatever that any particular optical or electrical phenomenon occurred preceding, during or following the earthquake." At the time of the San Francisco earthquake there was a well-defined high over practically the entire area of the United States. There were no unusual features connected with the wind, or with other meteorological elements. "It was a pleasant spring day." Dr. Richter and Professor McAdie believe that the clouds which have been reported over the San Francisco fire (see *SCIENCE*, November 14, 1906, and April 5, 1907) showed no features that can not be explained as smoke effects. "Well-marked Foehn Effects with Great Diurnal Ranges of Temperature in Southern California," by Professor A. G. McAdie. A foehn effect on November 29 and 30, and on December 1 gave maximum temperatures between 80° and 86°, while the morning temperatures were so low that frost was reported in many places. This range, of about 50°, is a very unusual one in southern California. "The Relation of the Movements of the High Clouds to Cyclones in the West Indies," by John T. Quin. This is the continuation of a previous discussion in the *Monthly Weather Review* for May, 1907. "Studies of Frost and Ice Crystals," by W. A. Bentley. "The Winds of the Lake Region," by Professor A. J. Henry. This is

an important paper, on a subject which has received little attention. It deals with the seasonal wind directions (with charts); the average velocities, and with high winds. "Influence of Vegetation in Causing Rain." A brief discussion, by the editor, as to the possible effects of soils, bare and covered with vegetation, upon rainfall. R. DEC. WARD

#### THE CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING

MR. ANDREW CARNEGIE has added \$5,000,000 to the endowment of the Carnegie Foundation in order that retiring allowances may be provided for professors in state universities.

UNIVERSITY	Date of Founding	No. in Faculty	Student Registration	Receipts, 1906	Entrance Requirements
Georgia.....	1785	23	408	82,642	11
N. Carolina ...	1789	36	870	235,603	11.6
Tennessee.....	1794	27	695	88,390	10
S. Carolina ...	1801	19	296	41,730	5.2
Ohio (Athens)	1804	22	1272	135,193	12
Indiana.....	1820	49	1684	152,138	15
Miami .....	1824	36	991	97,472	14
Virginia.....	1825	35	706	111,094	8.4
Alabama.....	1831	17	491	56,053	10
Michigan ....	1837	113	4136	451,697	14
Missouri.. ....	1840	85	2072	366,111	15
Iowa.....	1847	53	1815	432,304	15
Mississippi....	1848	17	571	144,704	11
Wisconsin.....	1848	119	3571	804,521	14
Utah.....	1850	30	1063	159,007	10.7
Louisiana ....	1860	27	458	65,214	9.5
Washington...	1861	43	925	149,345	15
Kansas.....	1864	88	1706	391,778	15
Maine.....	1867	28	687	41,900	13.5
W. Virginia...	1867	36	1422	138,660	12.5
California. ....	1868	116	4173	727,536	15
Illinois .....	1868	156	4074	825,107	14
Minnesota.....	1868	90	3955	345,261	15
Nebraska .....	1869	84	2914	357,060	14
Ohio State.....	1870	92	2157	628,000	14
Arkansas .....	1872	36	1528	143,900	10
Oregon.....	1876	19	506	117,200	15
Colorado.....	1877	31	1327	140,000	15
South Dakota..	1882	24	381	68,750	15
North Dakota..	1883	18	733	177,250	13
Texas.....	1883	43	1991	289,193	11.4
Nevada .....	1886	23	254	130,000	12
Wyoming.....	1886	18	241	26,081	14
Idaho .....	1889	16	363	96,537	15
Arizona.....	1891	13	226	32,200	15
New Mexico...	1891	8	89	29,615	15
Oklahoma.....	1892	19	475	85,000	15
Montana.....	1895	15	289	57,000	14
Florida.....	1904	14	136	57,710	9.9

The institutions that may be eligible with certain data in regard to them as compiled by Dr. Henry S. Pritchett, president of the foundation, are given above. These institutions will only be eligible if their entrance requirements are based on a high school preparation counted at 14 points on the table.

#### SCIENTIFIC NOTES AND NEWS

At the recent Founder's Day celebration at the University of Pennsylvania, Dr. S. Weir Mitchell presented to the university a portrait of the late Fairman Rogers, first professor of engineering and for many years a trustee of the university, given by Mrs. Rogers.

DR. CHARLES E. ST. JOHN has resigned the chair of physics and astronomy in Oberlin College and the deanship of the College of Arts and Sciences to accept the position of research associate in the Mount Wilson Solar Observatory of the Carnegie Institution of Washington.

DR. T. H. KRUMBACH, assistant in the zoological laboratory at Breslau, has been appointed director of the Zoological Station at Rovigno.

HERR EMIL EHRENSBERGER, technical director of the Krupp works, at Essen, has been given the honorary degree of doctor of philosophy by the University of Göttingen.

On the occasion of its commencement in June, Hobart College will confer the honorary degree of doctor of letters upon Professor R. M. Wenley, of the University of Michigan.

PROFESSOR W. B. SCOTT, of Princeton University, in presenting Grove Karl Gilbert, for the honorary degree of doctor of laws at the University of Pennsylvania last month, said: "For nearly forty years one of the most distinguished of those brilliant investigators who have adorned the successive organizations culminating in the present U. S. Geological Survey, you have enriched geology by a series of studies and contributions of striking originality and importance, which have led to new conceptions of the earth's history and opened new fields of investigation. As a pioneer in what may almost be called the American sci-

ence of physiography, your work is recognized and valued the world over as being of the highest significance. Therefore, at the request of the trustees of the University of Pennsylvania, I ask the provost to confer upon you, Grove Karl Gilbert, the degree of doctor of laws."

PRESIDENT ROOSEVELT has appointed President Van Hise, of the University of Wisconsin, to represent the National Association of State Universities at the conference on the conservation of natural resources, to be held at the White House on May 13-15.

DR. HEINRICH ROSENBUSCH, professor of mineralogy and geology at Heidelberg, will retire from active service on October 1.

THE officers of the Southern Society for Philosophy and Psychology, elected at the recent meeting of the Society at Washington, D. C., are : *President*, Professor J. MacBride Sterrett, George Washington University; *Vice-president*, Professor Albert Lefevre, University of Virginia; *Secretary-Treasurer*, Professor Edward Franklin Buchner, University of Alabama.

DR. MICHAEL F. GUYER, professor of zoology in the University of Cincinnati, has been granted one year's leave of absence, beginning on June 1, 1908, for study in Europe. The same privilege has been granted to Associate Professor George Morey Miller, English. Professor Marco F. Liberma, romance languages, will spend the summer only in France.

PROFESSOR W. H. HOBBS, of the University of Michigan, accompanied by two assistants, will make a special study of the glacial formation of the Alps during the summer.

THE board of managers of the Museum of Science and Art at the University of Pennsylvania, announces that D. Randall MacIver, curator of the Egyptian sections of the museum, will return to this country with a valuable collection of Nubian statues, tablets, vases, bronzes and other curios, dug from Egyptian ruins.

PROFESSOR J. B. WOODWORTH, of Harvard University, will take charge of the Shaler Me-